Appl. No. 10/605,521 Amdt. dated June 03, 2005 Reply to Office action of February 17, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

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- (currently amended) A printed circuit inductor of a printed circuit board with at least a
 first wiring layer and a second wiring layer comprising:
 - a first conductive trace formed on in a first wiring layer of a printed circuit board;
 - a second conductive trace formed on in a second wiring layer of [[a]] the printed circuit board, wherein the second layer is disposed below and parallel to the first layer, the layers being separated by an insulating material;
 - a third conductive trace formed on in the first wiring layer and parallel to the first conductive trace:
 - a fourth conductive trace formed on in the second wiring layer and parallel to the second conductive trace;
 - a first via plug directly connected to a first end of the first conductive trace and to a first end of the second conductive trace;
 - a second via plug directly connected to a second end of the second conductive trace and to a first end of the third conductive trace; and
 - a third via plug directly connected to a second end of the third conductive trace and [[a]] to a first end of the fourth conductive trace;
- wherein the first conductive trace is electrically connected to the fourth

 conductive trace through the first via plug, the second conductive trace, the

 second via plug, the third conductive trace, and the third via plug with no
 intervening connections.
- wherein the first via plug, the second via plug and the third via plug are positionedalong two parallel lines; or the first via plug, the second via plug and the thirdvia plug are aligned but not positioned along two parallel lines; or the first via-

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plug, the second via plug and the third via plug are not aligned.

2. (original) The inductor of claim 1 wherein the first via plug is perpendicular to the first conductive trace, the second via plug is perpendicular to the second conductive trace, and the third via plug is perpendicular to the third conductive trace.

3-8. (cancelled).

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- 9. (currently amended) A printed circuit inductor of a printed circuit board having a first
 wiring layer and a second wiring layer comprising:
 - a first conductive trace formed on in the first wiring layer;
 - a second conductive trace formed on <u>in</u> the second wiring layer, the second wiring layer substantially parallel to the first wiring layer, the second conductive trace substantially not parallel to the first conductive trace;
- a third conductive trace formed on <u>in</u> the first wiring layer and parallel to the first conductive trace;
 - a fourth conductive trace formed on in the second wiring layer and parallel to the second conductive trace;
 - a first via plug perpendicular to the wiring layers <u>first and second layers</u> and directly connecting the first and second conductive traces;
 - a second via plug perpendicular to the wiring layers first and second layers and directly connecting the second and third conductive traces; and
 - a third via plug perpendicular to the wiring layers first and second layers and directly connecting the third and fourth conductive traces;
- 25 wherein the first conductive trace is electrically connected to the fourth conductive trace through the first via plug, the second conductive trace, the second via plug, the third conductive trace, and the third via plug with no intervening connections.

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- 10. (currently amended) The inductor of claim 9, wherein an angle formed in the plane of the first wiring layer between a vector from the third via plug to the first via plug and a vector from the third via plug to the second via plug is substantially a right angle.
- 11. (currently amended) The inductor of claim 9, wherein an angle formed in the plane of the first wiring layer between a vector from the third via plug to the first via plug and a vector from the third via plug to the second via plug is substantially an acute angle.
- 10 12. (currently amended) The inductor of claim 9, wherein an angle formed in the plane of the first wiring layer between a vector from the third via plug to the first via plug and a vector from the third via plug to the second via plug is substantially an obtuse angle.